



# CINT2000 Result

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Fujitsu Siemens Computers  
PRIMERGY RX220, AMD Opteron (TM) 280

SPECint\_rate2000 = 75.4  
SPECint\_rate\_base2000 = 68.9

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Dec-2005 | Hardware Avail: Feb-2006 | Software Avail: Mar-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	108	60.3	4	108	60.3
175.vpr	4	112	58.0	4	109	59.7
176.gcc	4	63.4	80.5	4	63.4	80.5
181.mcf	4	207	40.3	4	166	50.4
186.crafty	4	64.5	71.9	4	59.3	78.3
197.parser	4	123	67.8	4	123	67.8
252.eon	4	70.8	85.2	4	50.4	120
253.perlbnk	4	116	72.0	4	106	78.5
254.gap	4	69.7	73.3	4	69.7	73.3
255.vortex	4	79.7	111	4	71.9	123
256.bzip2	4	123	56.4	4	119	58.4
300.twolf	4	188	74.0	4	157	88.7

### Hardware

CPU: AMD Opteron (TM) 280 processor (2.40 GHz)  
 CPU MHz: 2400  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 64KBI + 64KBD on chip, per core  
 Secondary Cache: 1024KB (I+D) on chip, per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8x2048MB DDR-RAM PC3200R  
 Disk Subsystem: Western Digital WD2500 (SATA, 7.2krpm)  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise Edition + SP1  
 Compiler: Intel C++ 8.0  
 Build 20040318Z (for 32-bit applications),  
 Microsoft Visual Studio .Net 2003  
 7.1.3088 (for libraries),  
 SmartHeap Library Version 8.0  
 from <http://www.microquill.com>  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

### GENERAL

+FDO: PASS1= -Qprof\_gen PASS2= -Qprof\_use

### Portability flags

176.gcc: -Dalloca=\_alloca /F10000000  
 186.crafty: -DNT\_i386  
 253.perlbnk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
 254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

### Base tuning flags

for C programs: -fast -arch:SSE2 -Oi- +FDO  
 for C++ programs: -fast -GX -GR +FDO

### Peak tuning flags

164.gzip: basepeak=yes  
 175.vpr: -fast -arch:SSE2 -Qoption,c,-ip\_ninl\_max\_stats=2000,  
 -ip\_ninl\_max\_total\_stats=4500 +FDO ONESTEP=yes  
 176.gcc: -fast -arch:SSE2 -Oi- -Qunroll3 +FDO shlw32M.lib  
 181.mcf: -fast -QaxN +FDO shlw32M.lib  
 186.crafty: -fast -arch:SSE2 +FDO ONESTEP=yes shlw32M.lib



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## Notes/Tuning Information (Continued)

```
197.parser: basepeak=yes
252.eon:     -fast -arch:SSE2 -Qansi_alias -Qoption,c,-ip_ninl_max_stats=2000,
            -ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes shlw32M.lib
253.perlbnk: -fast -arch:SSE2 -Oi- +FDO ONESTEP=yes shlw32M.lib
254.gap:     basepeak=yes
255.vortex:  -fast -arch:SSE -Oi- -Qoption,c,-ip_ninl_max_stats=2000,
            -ip_ninl_max_total_stats=4500 +FDO shlw32M.lib
256.bzip2:   -fast -Qunroll2 shlw32M.lib
300.twolf:   -fast -arch:SSE2 -Qansi_alias +FDO ONESTEP=yes shlw32M.lib
```

'start /b /wait /affinity' command is used to bind CPU(s) to processes

boot options: /NoExecute=alwaysoff  
/USEPMTIMER

BIOS settings: Memory timing=1T

This result was measured with 32-bit binaries using the 32-bit version of the operating system.

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